7.3L DIESEL ENGINE MECHANICAL SPECIFICATIONS

Description		English Specifications	Metric Specifications
Cylinder Block (cont'd)			
Overall:		0.0060	0.1524
In any 6 in./(152.4mm):		0.0030	0.0762
Head gasket Surface finish (RMS):		63-125	-
Cylinder Head			
Valve guide bore diameter			
Intake:		0.3141-0.3151	7.978-8.004
Exhaust:		0.3141-0.3151	7.978-8.004
Valve seat width	3		
Intake:		0.065-0.095	1.651-2.413
Exhaust:		0.065-0.095	1.651-2.413
Maximum runout:		0.0020	0.0051
Gasket surface flatness			
Overall:		0.0060	0.1524
In any 6 in. (152.4mm):		0.0030	0.0762
Valve Rocker Arm Shaft, Pushrods and Tappets			
Pushrod runout TIR maximum:		0.0200	0.5000
Valve tappet or lifter			
Standard diameter:		0.9209-0.9217	23.391-23.411
Clearance to bore:	4	0.0011-0.0034	.00279-.00864
Hydraulic lifter leakdown rate:	5	18 to 90 seconds for 0.125 in. (3.175mm) travel	
Collapsed tappet gap (clearance):	6	0.1850	4.6990
Valves			
Valve stem to guide clearance			
Intake:		0.0055	0.1397
Exhaust:		0.0055	0.1397
Valve face angle			
Intake 30 degrees			
Exhaust 37.5 degrees			
Maximum valve face runout:		0.0020	0.0508
Minimum value face margin			
Intake valves:		0.0660	1.6764
Exhaust valves:		0.0540	1.3716
Valve springs			
Valve spring compression pressure @ specified height			
Intake:	7	71-79 lbs. @ 1.833 in.	32.2-35.8 @ 46.56mm
Exhaust:		71-79 lbs. @ 1.833 in.	32.2-35.8 @ 46.56mm
Free length (approx.):			
Intake:		1.925-2.225	48.905-56.505
Exhaust:		1.925-2.225	48.905-56.505
Assembled height			
Intake:		1.7670	44.8818
Exhaust:		1.8330	46.5582
Valve spring out of square (max.):		5/64 (0.078)	1.9800
Valve Stem Diameter			
Standard:		0.31185-0.31255	7.921-7.939
Valve head recession relative to deck surface			
Intake:		0.046-0.058	1.168-1.473
Exhaust:		0.052-0.064	1.321-1.626
Crankshaft and Flywheel			
Main bearing journals			
Diameter			
Standard:		3.1228-3.1236	79.319-79.340
Undersize			
0.01:		3.1128-3.1136	79.065-79.085
0.02:		3.1028-3.1036	78.811-78.831
0.03:		3.0928-3.0936	78.557-78.577
TIR Maximum runout:	8	0.0020	0.05080
Maximum out of round:		0.0002	0.00508
Thrust face runout TIR maximum:		0.0010	0.02540
Maximum taper per inch/mm:		0.0015	0.03810
Thrust bearing journal width:		1.1325-1.1355	28.766-28.842
Main and rod bearing journal			
Finish RMS maximum: 10			
Main bearing thrust face			
Finish RMS maximum: 20			
Connecting rod journal			
Diameter:			
Standard		2.4980-2.4990	63.4492-63.4746
Undersize			
0.01:		2.488-2.489	63.1952-63.2206